

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov www.ct.gov/csc

November 25, 2009

TO: Council Members

RE: DOCKET NO. 383 - New Cingular Wireless PCS, LLC (AT&T) application for a

Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a telecommunications facility located at 316 Perkins Road,

Southbury, Connecticut.

For your records attached please find a copy of Exhibit 6 and Administrative Notice 19, which were taken in at the hearing on November 24, 2009 in Southbury.

SDP/CDM/jbw

c: Parties and Intervenors

Enclosures

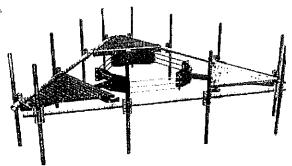


TOWERS — ANTENNAS AND MOUNTING TYPES CT SITING COUNCIL

Antennas can be installed within, flush mounted to, or installed on a platform on a monopole. A regular antenna platform is shaped as a triangle with antennas mounted on each side of the triangle. A low-profile antenna platform is the same as a regular antenna platform; however the metal sides of the triangle are thinner and therefore less visible. A t-bar antenna platform consists of three arms extending from the monopole facing different directions with antennas mounted straight across the other end of the arm.

Monopole Mounts

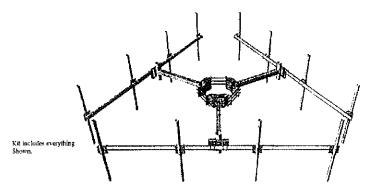
Kit includes everything shown



Low Profile Co-Location Platforms for 12 Antennas

 COMPLETE KIT includes Ring Mount, (3) Support Arms, Grating, Antenna Mounting Pipes and all hardware.

Monopole Mounts



Monopole Triple T-Arm for 12 Antennas

- COMPLETE KIT includes Ring Mount, (3) 36" Support Arms, (3) 3-1/2" Horizontal pipes (12'-6" or 14'-6"), Antenna Mounting Pipes and all hardware.
- See page 68 for work support platforms.

Figure-68. Two examples of antenna mounting types on a monopole. The top drawing is an example of a low-profile antenna mount. The bottom drawing is an example of a t-arm antenna mount.



TOWERS — ANTENNAS AND MOUNTING TYPES CT SITING COUNCIL

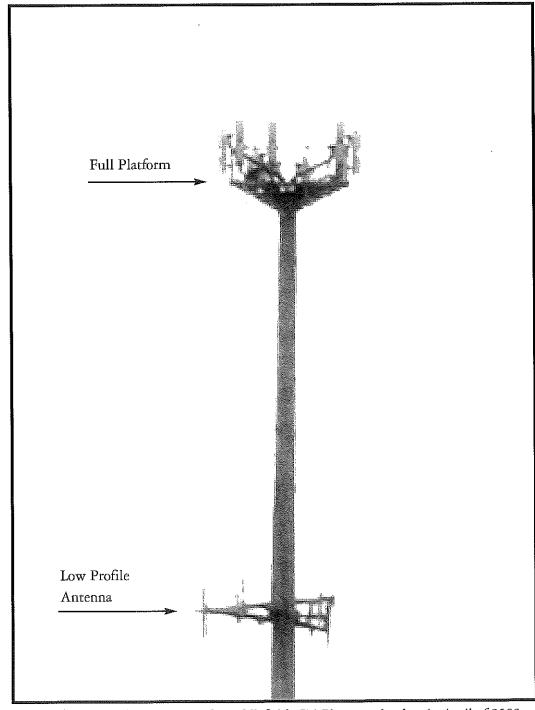


Figure-69. 393 Jackson Hill Road, Middlefield, CT. Photograph taken in April of 2003.



TOWERS — ANTENNAS AND MOUNTING TYPES CT SITING COUNCIL

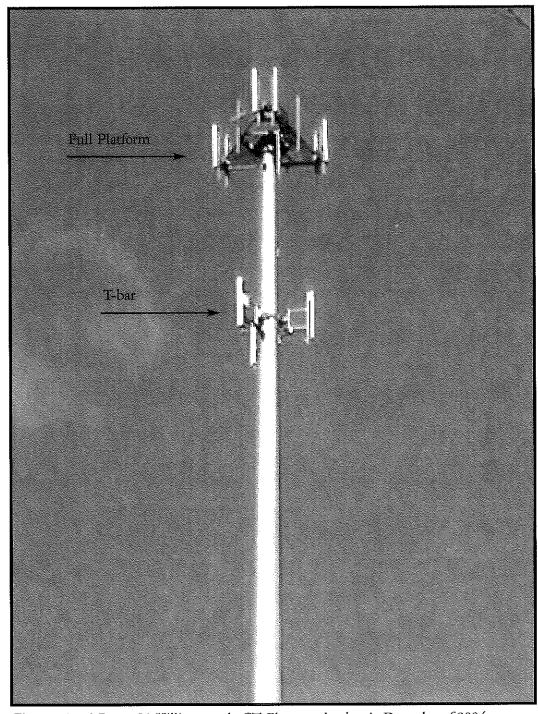


Figure-71. 78 Route 81 Killingsworth, CT. Photograph taken in December of 2004.



CLARINE NARDI RIDDLE ACTING ATTORNEY GENERAL

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State of Connecticut



Office of The Attorney General

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CONNECTICUT. SITING COUNCIL

Tel: 566-7570

MACKENZIE HALL 110 SHERMAN STREET HARTFORD, CONNECTICUT 06105 TELEPHONE (203) 568-2192 TELECOPIER (203) 523-5536

July/8, 1989

Honorable Gloria Dibble Fond Chairperson Connecticut Siting Council 136 Main Street, Suite 401 New Britain, CT 06051

RE: State Police CTS

Site No. 21 - Southbury Training School

Dear Chairperson Pond:

Enclosed please find an original and 20 copies of a Notice of Intent to Erect an Exempt Telecommunications Tower and Associated Equipment pursuant to Council Reg. Sec. 16-50j-73 for Siting Council review.

Please record my name as counsel for the State Police in this matter and in correspondence from the Siting Council.

Thank you for your consideration.

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Very truly yours,

CLARINE NARDI RIDDLE ACTING ATTORNEY GENERAL

Robert F. Vacchelli

Assistant Attorney General

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CONNECTICUT SITING COUNCIL

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SITING COUNCIL

Notice of Intent to Erect an Exempt Telecommunications Tower and Associated Equipment

Pursuant to Conn. Gen. Stat. § 16-50g et seq. and Sec. 16-50j-73 of the Regulations of the Connecticut Siting Council, the Connecticut Division of State Police hereby gives notice of its intent to erect an exempt telecommunications tower and associated equipment at Southbury Training School in Southbury, CT.

The site is currently occupied by an existing, active telecommunications tower and radio building enclosed by a fence. The State Police Division proposes to replace the existing, 180 foot, lattice-type tower with a new lattice-type tower of equal height, remove the old tower, build a new equipment shelter and remove the existing shelter, replace the existing fencing and place a gravel cover within the enclosed area as generally depicted in the Site Plan Drawing 021-200 attached in Attachment A. Equipment on the existing tower includes 9 antennas: 3 whip type, 2 dish, 2 single dipole, 1 two dipole array and 1 folded monopole. Users are the State Police Division, Southbury Training School and State Department of Transportation. At

present, the State Police Division intends to replace all of these antennas on the new tower, and add 13 more: 7 dish, 4 whip type and 2 four dipole arrays. New users will be the State Police Division, State Department of Education, U.S. Secret Service, and State Department of Health Services. The near-term projected maximum loading specifications are listed in Attachment This tower replacement project is part of a State Police Division state-wide effort to upgrade its equipment and implement a modern Connecticut Telecommunications System (CTS) for Trooper and public safety, and to share tower space with other users.

The State Police Division believes that this tower replacement project is exempt from the need to obtain a Certificate of Environmental Compatibility and Public Need pursuant to Siting Council Reg. Sec. 16-50j-72(b) for the following reasons:

Existing Tower Site

The proposed location of the new tower is currently occupied by a one hundred eighty (180) foot lattice-type tower and radio building actively utilized by the State Police Division as a telecommunications facility. Existing fencing will be replaced or modified.

2. Site Boundaries

As depicted on the attached site plan, the boundaries of the tower site will not be extended. No tree cutting or extensive grading will be conducted at the site for the project.

3. Tower Height

The replacement tower will be no higher than the existing tower. Upon exection of the new tower, the old tower will be removed.

4. Noise Levels

The proposed replacement will not increase noise levels at the existing facility by six decibels or more. Except during construction, the only noise associated with the State Police Division equipment will be from air conditioning and stand-by power generation, when in use.

Radiation Power Density

The radio frequency sending or receiving capability of the facility will not increase the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard considered by the State Department of Environmental Protection (DEP).

Although the State DEP is in the process of promulgating standards, it is authorized to adopt the standards recommended by the American National Standards Institute (ANSI). The current ANSI standard applicable to the proposed State Police Division facility and the total radio frequency electromagnetic radiation power density calculated for the proposed tower site boundary are set forth in Attachment C.

CONCLUSION

For all the above stated reasons, the State Police Division requests the Siting Council to rule that this Notice is in compliance with the exception criteria for changes to an existing facility pursuant to Reg. Sec. 16-50j-72(b).

Dated at Meriden, CT this 18th day of July, 1989.

CONNECTICUT STATE POLICE

y: Aylam fould: Mulha Captain Ronald P. Mikulka Deputy Commanding Officer Police Support Services 294 Colony Street Meriden, CT 06450 Tel. (203) 238-6570

CERTIFICATION

The undersigned hereby certifies that a copy of the foregoing Notice of Intent to Erect Exempt Telecommunications Associated Equipment was mailed this $/8^{76}$ day of July, 1989 to the below named chief elected official in Southbury, CT pursuant to Reg. Sec. 16-50j-73:

Honorable Carol A. Herskowitz First Selectman Town of Southbury 501 Main Street South Southbury, CT 06488

Robert F. Vacchelli

Assistant Attorney General

ATTACHMENT B

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RADIO SYSTEMS CHARACTERISTICS

FILE NAME: SITE NAME:

21-P SOUTHBURY

PREPARED BY: E WEIBLEN
ON DATE: 06-15-1989 TOWER HEIGHT: 180 FEET

06-15-1989

केले की के किए की किए बाहर की वहार मान बाहर का पहल साम का का अपने का बाहर का को की वाल काई काए होंगे की के स्व 			ANTENNA			
No	OPERATING FREQUENCY (MHz)	TRANSMIT POWER (WATTS)	HEIGHT (FEET)	TYPE	VERTICAL SIZE(FT)	
****				White the same of		
1	2142.000	3	177	SOLID DISH	6	
2	2147.600	3 '	168	SOLID DISH	6	
3	6700.000	1.	171	SOLID DISH W/RADOME	6	
4	18700.000	ī	178	SOLID DISH W/SHROUD	4	
5	6700.000	1	166	SOLID DISH W/RADOME	8	
5	6700.000	ī	174	SOLID DISH W/RADOME	8	
7	42,480	100	180	WHIP ON PIPE MOUNT	11	
8	39,460	250	150	SINGLE DIPOLE	13	
9	45.860	250	128	SINGLE DIPOLE	13	
10	154.665	100	147	TWO DIPOLE ARRAY	11	
11	42.040	100	143	WHIP ON PIPE MOUNT	11	
12	33,840	100	115	WHIP ON PIPE MOUNT	16	
13	157.560	60	83	WHIP WITH RADIALS	6	
14	867,500	350	180	WHIP	13	
15	867.500	350	1.80	WHIP	13	
16	822,500	Ö	180	WHIP	13	
1,7	2536.000	O	166	GRID DISH	4	
18	2674.000	2	174	GRID DISH	4	
19	2674.000	2	179	SOLID DISH	2	
20	165.688	100	93	FOUR DIPOLE ARRAY	22	
21	462.950	70	155	FOUR DIPOLE ARRAY	10	
22	153.815	100	147	WHIP	23	

AND THE RESERVE OF THE PROPERTY OF THE PROPERT

ATTACHMENT C

POWER DENSITY ANALYSIS الماد بعد والنظافة فلير فلي بالماد الماد والماد والماد والماد الماد والماد والم

RADIO SYSTEMS DATA

FILE NAME: 21-P SITE NAME: SOUTHBURY TOWER HEIGHT: 180 FEET

PREPARED BY: E WEIBLEN

ON DATE: 06-15-1989

No	OPERATING FREQUENCY (MHz)	TRANSMIT POWER (WATTS)	ANTENNA HEIGHT (FEET)	LIMIT OF SAFE EXPOSURE (mW/cm ²)	POWER DENSITY (mW/cm²)	THE TOWER PERCENT OF LIMIT
	شنة ضنغ بالبرجية تنقا فاحد بيسر فياد جياد		w w m m w m m	**************************************	0.0000082	0.0001640
1	2142.000	3	177	5.000	0.0000091	0.0001821
2	2147,600	3	168	5.000		0.0000586
3	6700.000	1.	171	5.000	0.0000029	0.0000541
4	18700.000	1	178	5.000	0.0000027	0.0000541
5	6700.000	1	166	5.000	0.0000031	
б	6700.000	1	174	5.000	0.0000028	0.0000566
7	42.480	100	180	1.000	0.0002644	0.0264361
8	39,460	250	150	1.000	0.0009517	0.0951701
9	45.860	250	128	1.000	0.0013070	0.1306963
10	154.665	100	147	1.000	0.0003964	0.0396377
11	42.040	100	143	1.000	0.0004189	0.0418862
12	33.840	100	115	1.000	0.0006477	0.0647661
13	157.560	60	83	1.000	0.0007460	0.0745999
14	867.500	350	180	2.892	0.0009253	0.0319940
15	867.500	350	180	2.892	0.0009253	0.0319940
16	822.500	0	180	2.742	0.0000000	0.0000000
17	2536.000	ő	166	5.000	0.0000000	0.0000000
18	2674.000	2	174	5.000	0.0000057	0.0001132
	2674.000	2	179	5.000	0.0000053	0,0001069
19	165.688	100	93	1.000	0.0009903	0.0990324
20		70	155	1.543	0.0002496	0.0161738
21	462.950	100	147	1.000	0.0003964	0.0396377
22	153.815	100	771	*****		بنية فقد هذه بندا بلقة جديد عند عند عند عند

TOTAL PERCENT OF SAFE LIMIT FOR ALL 22 RADIO SYSTEMS = 0.6928217

- NOTES: 1. THE 'LIMITS OF SAFE EXPOSURE' HAVE BEEN DETERMINED IN ACCORDANCE WITH THE SAFETY LEVELS DEFINED IN ANSI STANDARD C95.1-1982, ISSUED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE AND ADOPTED BY THE CONNECTICUT LEGISLATURE INTO THE CONNECTICUT GENERAL STATUTES, SECTION 22a-162, IN 1984.
 - 2. THIS ANALYSIS ASSUMES THE FOLLOWING WORST CASE CONDITIONS.
 - A. ALL ANTENNAS HAVE ISOTROPIC (UNIFORM) RADIATION PATTERNS, WHICH PROVIDE HIGH ILLUMINATION OF THE GROUND.
 - B. ALL TRANSMITTERS ARE ON SIMULTANEOUSLY.

POWER DENSITY ANALYSIS والمراجع المراجع المرا

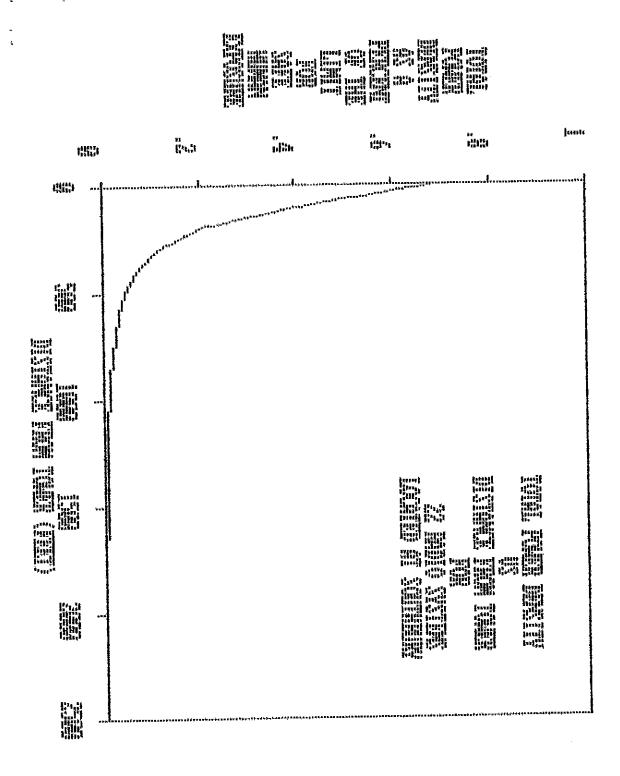
POWER DENSITY (% OF SAFE LIMIT) VS DISTANCE FROM TOWER

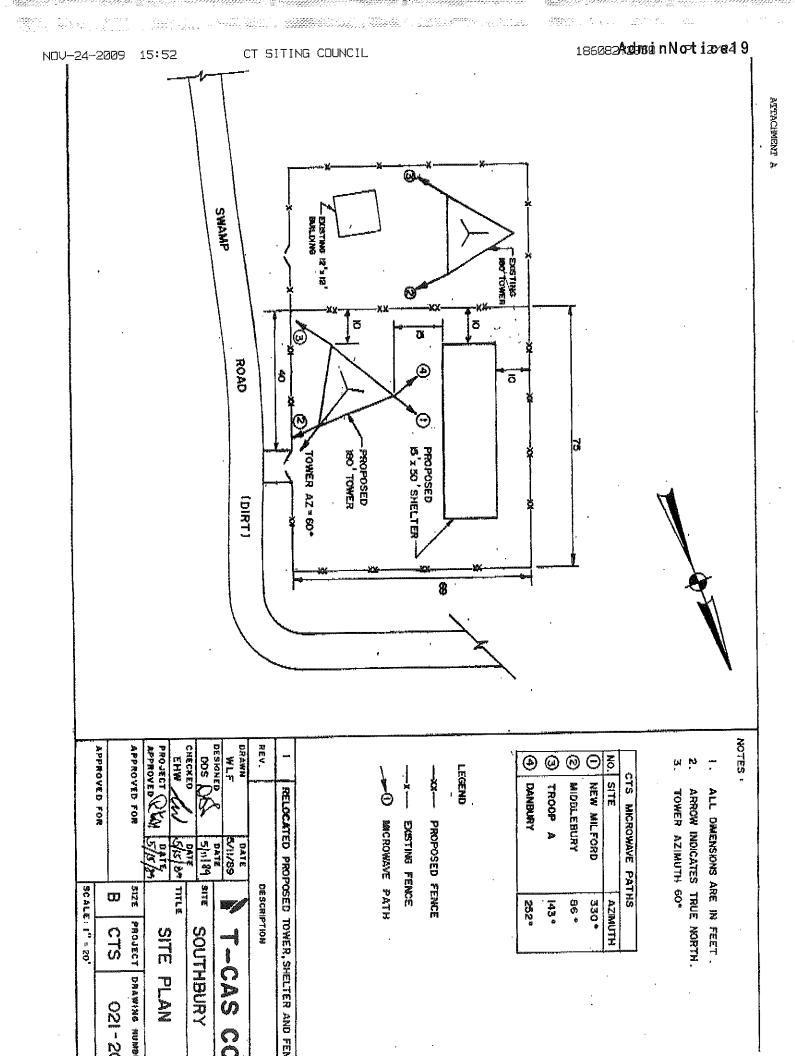
- 「Managerial Languages (Angles Angles Ang

FILE NAME: 21-P SITE NAME: SOUTHBURY PREPARED BY: E WEIBLEN TOWER HEIGHT: 180 FEET ON DATE: 06-15-1989

DISTANCE (FEET)	POWER DENSITY (% OF SAFE LIMIT)
-17 cm 400 TH 100 TO 100 FM	
O	0.6928218
100	0.4237267
200	0.2057502
300	0.1120938
400	0.0686206
500	0.0458149
600	0.0325865
700	0.0242976
800	0.0187849
900	0.0149429
1000	0.0121627
1100	0.0100882
1200	0.0085003
1300	0.0072585
1400	0.0062694
1500	0.0054689
1600	0.0048121
1700	0.0042666
1800	0.0038087
1900	0.0034207
2000	0.0030889
2100	0.0028031
2200	0.0025552
2300	0.0023387
2400	0.0021486
2500	0.0019807







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CONNECTICUT SITING COUNCIL

CLARINE NARDI RIDDLE ACTING ATTORNEY GENERAL

Office of The Attorney General

MACKENZIE HALL

110 SHERMAN STREET

HARTFORD, CONNECTICUT 06105

TELEPHONE (203) 588-2192

TELECOPIER (203) 523-5536

Tel: 566-7570

September 25, 1989



Honorable Gloria Dibble Pond Chairperson Connecticut Siting Council 136 Main Street, Suite 401 New Britain, CT 06105

RE: State Police CTS Notices of Intent to Erect Exempt Telecommunications Towers and/or Equipment at:

Site 20 - Middlebury

Site 25 - Troop A Site 26 - Troop I

Site 27 - West Rock Ridge

Dear Ms. Pond:

Enclosed please find an original and 20 copies of the State Police Division's Supplement to Notices of Intent in response to the Siting Council's request for additional information concerning the five project sites listed above. The State Police also take this opportunity to update the Council on recent changes in project plans for these sites, and would like to clarify that they are seeking acknowledgment from the Council that the antenna and radio changes planned are exempt from full application requirements, as well as the tower changes.

The additional information requested by the Council appears in Section A of the attached Supplement. Updates to project plans appear in Section B and discussion concerning the scope of the State Police Notices appears in Section C.

Honorable Gloria Dibble Pond September 25, 1989 Page 2

If I can be of further assistance to the Council, please advise.

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very truly yours,

CLARINE NARDI RIDDLE ACTING ATTORNEY GENERAL

Robert F. Vacchelli

Assistant Attorney General

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RFV/td enc.

SEP 2 & 1989 CONNECTICUT SITING COUNCIL

STATE OF CONNECTICUT



SITING COUNCIL

Supplement to
Notices of Intent to Erect Exempt
Telecommunications Towers
and/or Associated Equipment
at State Police CTS

Site 20 - Middlebury

Site 25 - Troop A Site 26 - Troop I

Site 27 - West Rock Ridge

Section A - Additional information respecting the location of the proposed towers in relation to abutting property owners, and description of services involved.

1. Locations:

Site 20 - Middlebury

The Middlebury tower facility is located on property owned by the State Department of Transportation (DOT). The land is a strip of highway right-of-way along I-84 approximately 70 feet wide. The tower is positioned 17 feet from the northern fence. Qur new shelter will be about 5 feet from the fence.

The nearest residence from the tower is approximately 500 feet.

Site 21 - Southbury Training School

The Southbury Training School tower facility is located in the northern section of the Southbury Training School property which consists of approximately 1800 acres of land.

The nearest private residence is approximately .4 of a mile north of the tower facility, situated behind a dense row of trees. The tower is not visible from this house because of the trees. The next nearest residence is .7 of a mile east of the tower site. The tower is barely visible from this

Services: 2.

Site 20 - Middlebury

- Division of State Police new antennas associated with the CTS digital microwave network and 800 MHz radio system.
- SNET Cellular new antennas needed to improve coverage for cellular telephone systems and to have complete and ъ. improved coverage, particularly along I-84 in the western sections of Middlebury and eastern sections of Southbury and other State and local roads in the vicinity. The SNET Cellular antennas are numbers 18 and 19 on the Power Density Reports.

Site 21 - Southbury Training School

- Division of State Police (same as Site 20). a.
- State Department of Education Educational TV System to be broadcast to area public schools.
- U.S. Secret Service Radio system for protection of the President and other dignitaries while in Connecticut and other related duties of the Agency.
- State Department of Health Services EMS dispatching and operations for Northwest Connecticut Public Safety d. Communications, which provides public safety dispatching for the N/W CT. Region.

Site 25 - Troop A

- Division of State Police (same as Site 20).
- State Department of Education Educational TV System.

Site 26 - Troop I

Division of State Police - (same as Site 20).

location. There is a house across the street from the tower, which belongs to the Southbury Training School and is used for staff.

Site 25 - Troop A

The Troop A tower facility is located near the Troop A building on DOT property bounded by I-84, #14 E/B Ramp and Lakeside Road in Southbury. The parcel is approximately 3 acres.

The nearest residence to the tower is approximately 1,000 feet.

Site 26 - Troop I

The Troop I tower facility is located near the Troop I building on a parcel of land of approximately 4 acres on Route 63 in Bethany. The tower is approximately 20 feet from the Western Boundary and 15 feet form the Northern Boundary. The nearest building (offices) is approximately 200 feet north of the tower.

The closest residence is across the street from the Troop, 250 feet east of the tower.

Site 27 - West Rock Ridge

The West Rock Ridge tower facility is located on DOT property located in West Rock Park in New Haven. The parcel is approximately 100 feet x 150 feet. It is located within property of approximately 1,533 acres owned by the State Department of Environmental Protection (DEP).

The nearest residence is approximately 1/2 mile away, at the bottom of the hill.

The changes requested in our exemptions for the above sites should have no impact on abutting property owners due to the remoteness of the sites.

b. Sheriff's Department - Prisoner Transportation System.

Site 27 - West Rock Ridge

- a. Division of State Police (same as Site 20).
- b. Department of Transportation CT Transit Bus Transportation System.
- c. U.S. Secret Service (same as Site 21).

Section B - Updated information concerning project descriptions.

Site 20 - Middlebury

The State Police Division intends to add 9 more antennas to the existing tower, as opposed to 8 earlier reported. New antennas will include 5 whip type, 2 dish and 2 panel. New users will be the State Police Division and the Southern New England Telephone Company. Updated, near-term loading specifications and new radiation power density calculations for the site are attached.

Site 21 - Southbury Training School

The State Police Division intends to add 14 more antennas to the new tower, as opposed to 13 earlier reported. New antennas will include 7 dish, 5 whip type and 2 four dipole arrays. New users will be the State Police Division, State Department of Education, U.S. Secret Service and the State Department of Health Services. Updated, near-term loading specifications and new radiation power density calculations are attached.

Site 25 - Troop A

The State Police Division corrects its earlier representation by noting that there are currently 4, rather than 3, antennas on the existing tower: 2 whip type, 1 dish and 1 folded monopole. The previous information supplied

concerning new antennas to be added to the tower, and new users, remains the same. Corrected filings for near-term loading specifications and radiation powers density calculations are attached.

Site 26 - Troop I

The State Police Division intends to add 5 more antennas to the tower, as opposed to 4 earlier reported. New antennas will include 4 whip type and 1 dish. All new antennas will be utilized by the State Police Division. Updated near-term loading specifications and radiation power density calculations are attached. Also, the State Police would like to correct its description of the existing radio systems as follows: the Fairfield County Sheriff's Department currently shares a four dipole array antenna with the State Police Division. This antenna will continue to be shared in the future.

Site 27 - West Rock Ridge

The State Police Division intends to replace 3, not 5, of the existing antennas on the new tower. It will remove 1 whip type, 1 dish and 2 corner reflectors. It will be adding 12, not 10, more antennas: 4 dish, 6 whip type and 2 four dipole arrays. New users will be the State Police Division, State DOT and the U.S. Secret Service. New near-term loading specifications and radiation power density calculations are attached.

Section C - Clarification of purpose for filing Notices of Intent.

The State Police Division wishes to clarify that in all of these filings, it seeks acknowledgment from the Council that the tower replacements and site changes, if any, and that the antenna/radio equipment changes discussed may be made without the need for applying for a full Certification of Environmental Compatibility and Public Need from the Council.

It is the State Police Division's understanding that if acknowledgment is received, it applies to the new users described as well as to the State Police, and that such new users will be considered by the Council as being allowed to attach their antennas to the towers and to install and operate their radio equipment on the State Police towers without need for further filings of Notice or Application to the Council.

In other words, it is the intent of the State Police Divison to obtain acknowledgment not only for the towers, but for all of the antennas and radio equipment for which data is supplied. If acknowledgment does not apply to any or all antennas or radio equipment, then the State Police Division requests to be advised by the Council accordingly.

Dated at Meriden, Connecticut this 257,day of September, 1989.

CONNECTICUT STATE POLICE

BY: <u>Astantined</u>. <u>Monder</u> Captain Ronald P. Mikulka Deputy Commanding Officer Police Support Services 294 Colony Street Meriden, CT 06450

Tel. (203) 238-6570

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13-F RADIO SYSTEMS CHARACTERISTICS 무르면도도도는 불통령 목록도가 늘을 중심으로 그 없다는 생산을 또 많도는 고 없말을

FILE NAME: 21-P
SITE NAME: SOUTHBURY
TOWER HEIGHT: 180 FEET

PREPARED BY: T-CAS

ON DATE:

09-13-1989

			ANTENNA			
Мо	OPERATING FREQUENCY (MHz)	TRANSMIT POWER (WATTS)	HEIGHT (FEET)	TYPE	VERTICAL SIZE(FT)	
		3	177	SOLID DISH	6	
1	2142.000	., 3	168	SOLID DISH	6	
2	2147.600	1	171	SOLID DISH W/RADOME	6	
3	6700.000	1	178	SOLID DISH W/SHROUD	4	
4	18700.000 6700.000	ī	166	SOLID DISH W/RADOME	8	
5	6700.000	ī	174	SOLID DISH W/RADOME	8	
6 7	42.480	330	180	WHIP ON PIPE MOUNT	11	
8	39.460	75	150	SINGLE DIPOLE	13	
9	45.860	100	128	SINGLE DIPOLE	13	
10	154.665	330	147	TWO DIPOLE ARRAY	11	
11	42.040	330	1.43	WHIP ON PIPE MOUNT	11 16	
12	33.840	100	115	WHIP ON PIPE MOUNT	£ 70	
13	157.560	60	83	WHIP WITH RADIALS	13	
14	867.500	350	180	WHIP	13	
15		350	180	WHIP	13	
16		0	180	WHIP	13	
17	822.500	0	180	WHIP	4	
18		0	166	GRID DISH	4	
19		2	174	GRID DISH	2	
20		2	179	SOLID DISH FOUR DIPOLE ARRAY	22	
21	165.688	100	, 93	FOUR DIPOLE ARRAY	10	
22	462.950	70	155	WHIP	23	
23	153.815	100	147	WILE .	•	

13-N POWER DENSITY ANALYSIS

RADIO SYSTEMS DATA

FILE NAME: 21-P SITE NAME: SOUTHBURY

Interpretation of the state of the control of the state o

PREPARED BY: T-CAS

ON DATE:

09-21-1989

TOWER HEIGHT: 180 FEET

LIMIT OF				AT THE BASE OF	THE TOWER	
No	OPERATING FREQUENCY (MHz)	TRANSMIT POWER (WATTS)	ANTENNA HEIGHT (FEET)	SAFE EXPOSURE (mW/cm²)	POWER DENSITY (mW/cm²)	PERCENT OF
1 2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17 18 19 20 21 22 22	2142.000 2147.600 6700.000 18700.000 6700.000 6700.000 42.480 39.460 45.860 154.665 42.040 33.840 157.560 867.500 867.500 822.500 822.500 2536.000 2674.000 165.688 462.950	3 3 1 1 1 330 75 100 330 330 100 60 350 350 0 0 2 2 100 70	177 168 171 178 166 174 180 150 128 147 143 115 83 180 180 180 180 174 179 93 155	5.000 5.000 5.000 5.000 5.000 1.000 1.000 1.000 1.000 1.000 2.892 2.892 2.742 2.742 5.000 5.000 1.000	0.0000082 0.0000091 0.0000029 0.0000027 0.0000028 0.0008724 0.0002855 0.0005228 0.0013080 0.0013822 0.0013822 0.0006477 0.0007460 0.0009253 0.0009253 0.0000000 0.0000000 0.0000000 0.0000000	0.0001640 0.0001821 0.0000586 0.0000541 0.0000566 0.0872393 0.0285510 0.0522785 0.1308044 0.1382245 0.0647661 0.0745999 0.0319940 0.0319940 0.0319940 0.0319940 0.000000 0.0000000 0.0001132 0.0001069 0.0990324 0.0161738 0.0396377
23	153.815	1.00	147	1.000	1 0.00	

TOTAL PERCENT OF SAFE LIMIT FOR ALL 23 RADIO SYSTEMS = 0.7960930

- NOTES: 1. THE 'LIMITS OF SAFE EXPOSURE' HAVE BEEN DETERMINED IN ACCORDANCE WITH THE SAFETY LEVELS DEFINED IN ANSI STANDARD C95.1-1982, ISSUED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE AND ADOPTED BY THE CONNECTICUT LEGISLATURE INTO THE CONNECTICUT GENERAL STATUTES, SECTION 22a-162, IN 1984.
 - 2. THIS ANALYSIS ASSUMES THE FOLLOWING WORST CASE CONDITIONS.
 - A. ALL ANTENNAS HAVE ISOTROPIC (UNIFORM) RADIATION PATTERNS, WHICH PROVIDE HIGH ILLUMINATION OF THE GROUND.
 - B. ALL TRANSMITTERS ARE ON SIMULTANEOUSLY.

13-O POWER DENSITY ANALYSIS

POWER DENSITY (% OF SAFE LIMIT) VS DISTANCE FROM TOWER

PREPARED BY: T-CAS

FILE NAME: 21-P SITE NAME: SOUTHBURY TOWER HEIGHT: 180 FEET

ON DATE: 09-21-1989

DISTANCE		POWER DENSITY
(FEET)		(% OF SAFE LIMIT)
		,e. e. e. e. je. je. e. e
0		0.7960930
100		0.5023962
200		0.2507571
300		0.1382756
400		0.0851273
500		0.0570046
600		0.0406152
700		0.0303168
800		0.0234553
900		0.0186674
1000		0.0151997
1100		0.0126107
1200		0.0106280
1300		0.0090768
1400		- 0.0078409
1500		0.0068404
1600		0.0060195
1700		0.0053375
1800		0.0047650
1900	13.	0.0042797
2000		0.0038648
2100		0.0035073
2200	•	0.0031972
2300		0.0029264
2400		0.0026886
2500		0.0024786

